

NDIA E2S2 2012

14414 - Updates to Department of Defense Acquisition Environment, Safety, and Occupational Health Policy and Guidance

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May 22, 2012

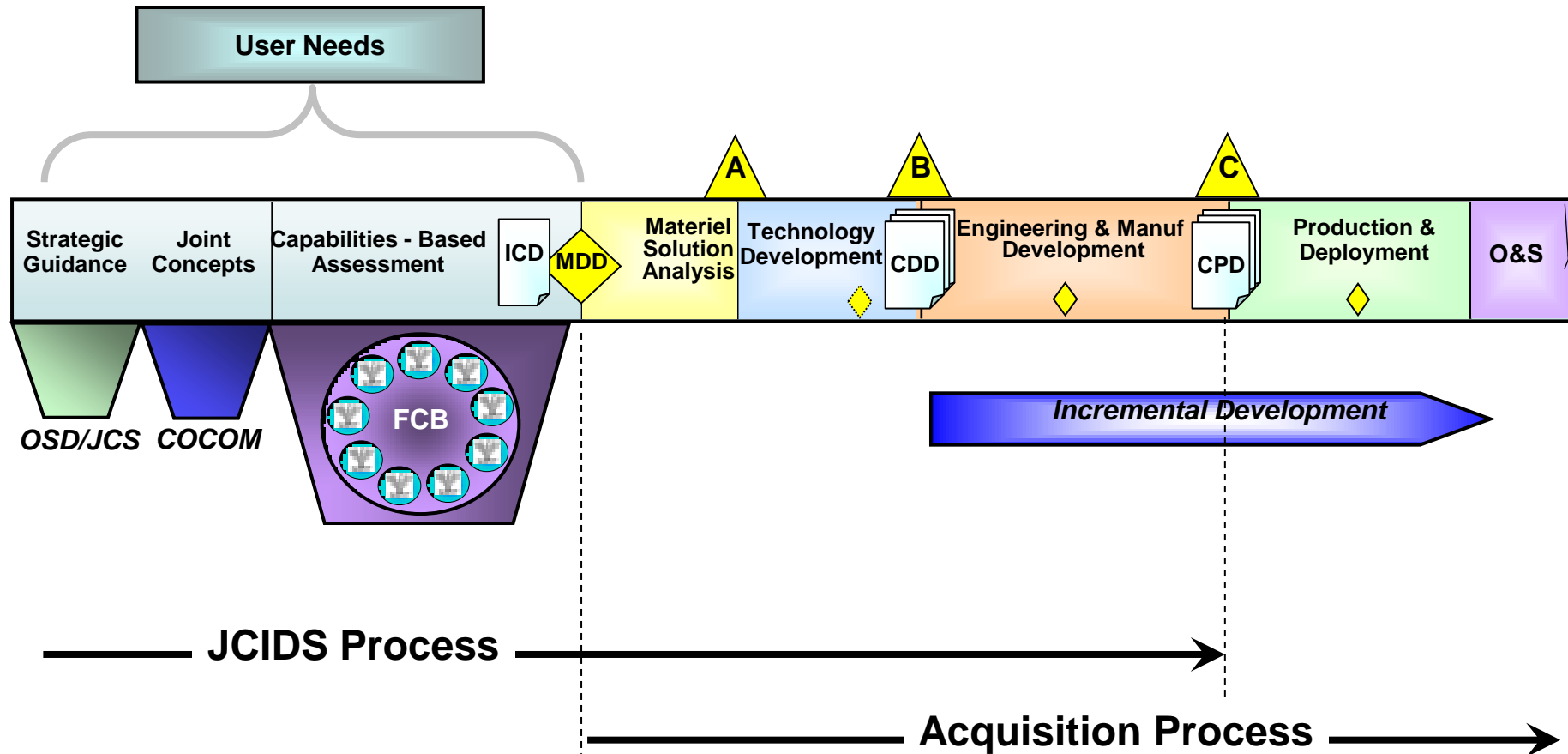
Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 22 MAY 2012		2. REPORT TYPE		3. DATES COVERED 00-00-2012 to 00-00-2012	
4. TITLE AND SUBTITLE Updates to Department of Defense Acquisition Environment, Safety, and Occupational Health Policy and Guidance				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Booz Allen Hamilton,8283 Greensboro Drive,McLean,VA,22102				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Presented at the NDIA Environment, Energy Security & Sustainability (E2S2) Symposium & Exhibition held 21-24 May 2012 in New Orleans, LA. U.S. Government or Federal Rights License					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 22	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

Updates to Department of Defense (DoD) Acquisition Environment, Safety, and Occupational Health (ESOH) Policy and Guidance

▶ Background

- ▶ Joint Capabilities Integration and Development System (JCIDS) Changes
- ▶ Streamlining of the Systems Engineering Plan
- ▶ DoD Standard Practice for System Safety
- ▶ Defense Acquisition Guidebook
- ▶ Military Department Updates
- ▶ Summary

Background: Defense Acquisition Management System



Background: Goals of Acquisition ESOH

- ▶ Support the warfighter and DoD's mission
 - Prevent loss of life or serious injury to personnel
 - Avoid damage to facilities or equipment
 - Prevent harm to the environment and the surrounding community
 - Avoid system failures that negatively impact mission capability or operability
 - Reduce ESOH-driven life-cycle costs to operate, train, and maintain acquisition systems
 - Assure ability to operate world-wide in a global environment of increased ESOH regulation



Background: DoD Policy

► Acquisition

- DoD Directive (DoDD) 5000.01, The Defense Acquisition System (May 12, 2003)
- DoD Instruction (DoDI) 5000.02, Operation of the Defense Acquisition System (December 08, 2008)
- Directive Technical Manual (DTM) 09-027 – Implementation of the Weapons Systems Acquisition Reform Act of 2009 (December 04, 2009 through Change 3, December 9, 2011)
- DTM 11-003 – Reliability Analysis, Planning, Tracking, and Reporting (March 21, 2011 through Change 1, December 2, 2011)
- Acquisition, Technology & Logistics (AT&L) Memo “Minimizing the Use of Hexavalent Chromium (Cr+6)” (April 8, 2009)
- AT&L Memo “Document Streamlining – Program Strategies and Systems Engineering Plan” (April 20, 2011)

► Capabilities/Requirements

- Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3170.01H, Joint Capabilities Integration and Development System (January 10, 2012)
- Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS) (January 19, 2012 with errata dated March 29, 2012)

Background: DoD Acquisition Guidance

- ▶ Acquisition
 - Defense Acquisition Guidebook, <https://dag.dau.mil/>
 - Acquisition Community Connection, ESOH Special Interest Area, <https://acc.dau.mil/esoh>
 - Training: “ESOH in Systems Engineering” Course (DAU Course Catalogue listing: CLE 009)
- ▶ Capabilities/Requirements
 - Training: “ESOH in JCIDS” Course (DAU Course Catalogue listing: CLR 030)

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JCIDS: What is it?

- ▶ JCIDS plays a key role in identifying the capabilities required by the warfighters.
 - Statutory responsibility of the Joint Requirements Oversight Council (JROC) is to validate joint warfighting requirements.
 - DoD acquisition and Planning, Programming, Budgeting, and Execution (PPBE) processes are supported.
 - System development is supported through initiating the definition of needed capabilities.
- ▶ Requirements traceability is key to success in system development.
 - JCIDS documents define what the warfighter needs.
 - Acquisition program offices translate those needs into technical requirements – system design, performance, and other specifications.
 - Requirements should be traceable back to JCIDS capability need or regulatory/policy driver.

JCIDS – Policy & Guidance Updates

- ▶ Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 3170.01H, Joint Capabilities Integration and Development System (January 10, 2012)
- ▶ Manual for the Operation of the Joint Capabilities Integration and Development System (JCIDS) (January 19, 2012 with errata dated March 29, 2012)
- ▶ Streamlined process
 - 50% reduction in timelines
 - Shorter document in length
- ▶ Six (6) mandatory Key Performance Parameters (KPPs) are formalized.
 - Force Protection, Survivability, Sustainment, Net-Ready, Training, and Energy
 - Energy KPP (eKPP)
 - Fuel and electric power demand considerations in systems
- ▶ Draft CDD is now required for Milestone (MS) A.
- ▶ New Urgent Operational Need (UON) document is established.

JCIDS – Policy & Guidance Updates (Cont.)

- ▶ DTM staffing requires Lead Service ESOH endorsement of JCIDS documents
 - Provide "Forcing Function" of ESOH SME participation in document development
- ▶ Continuous Learning Requirements (CLR) 030 “ESOH in JCIDS” Defense Acquisition University Online Module (April 2011)
- ▶ Defense Safety Oversight Council (DSOC) Initiative – Development of Handbook with ESOH & HSI Capability Statement examples (Starting in 2012)
 - All Types of Platforms
 - Initial Capability Document (ICD)
 - Capability Development Document (CDD)
 - Capability Production Document (CPD)

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Streamlining the Systems Engineering Plan (SEP)

- ▶ AT&L Memo “Document Streamlining – Program Strategies and Systems Engineering Plan” (April 20, 2012)
 - Streamlined and rationalized documentation
 - Delegated Programmatic ESOH Evaluation (PESHE) approval authority for ACAT 1 programs to Component Acquisition Executive
 - Removed PESHE Summary and National Environmental Policy Act (NEPA)/Executive Order 12114 Compliance Schedule from Acquisition Strategy
 - Mandated ESOH content in SEP, Table 4.6-1 Design Considerations
 - Cognizant Program Management Organization (i.e., who is responsible for ESOH)
 - ESOH Certifications
 - Hot link of PESHE and NEPA/EO 12114 Compliance Schedule
 - ESOH contractual language requirements
 - Description/Comments
 - Ensured all policy memos since last DoDI 5000.02 incorporated

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DoD Standard Practice for System Safety

- ▶ Updated to MIL-STD-882E
- ▶ Refined approach for identifying hazards, and assessing and mitigating associated risks encountered for life-cycle of the system
 - DoD strategic plans and goals supported
 - Basic elements of the system safety process clarified via organizational arrangement of information
 - Terminology clarified
- ▶ Emphasized identification of applicable technical requirements
- ▶ Identified additional task descriptions that may be specified in contracts
 - Hazardous Materials Management Plan
 - Functional Hazard Analysis
 - System of Systems Hazard Analysis
 - Environmental Hazard Analysis
- ▶ Increased dollar values for losses in severity descriptions
- ▶ Added software system safety techniques and practices

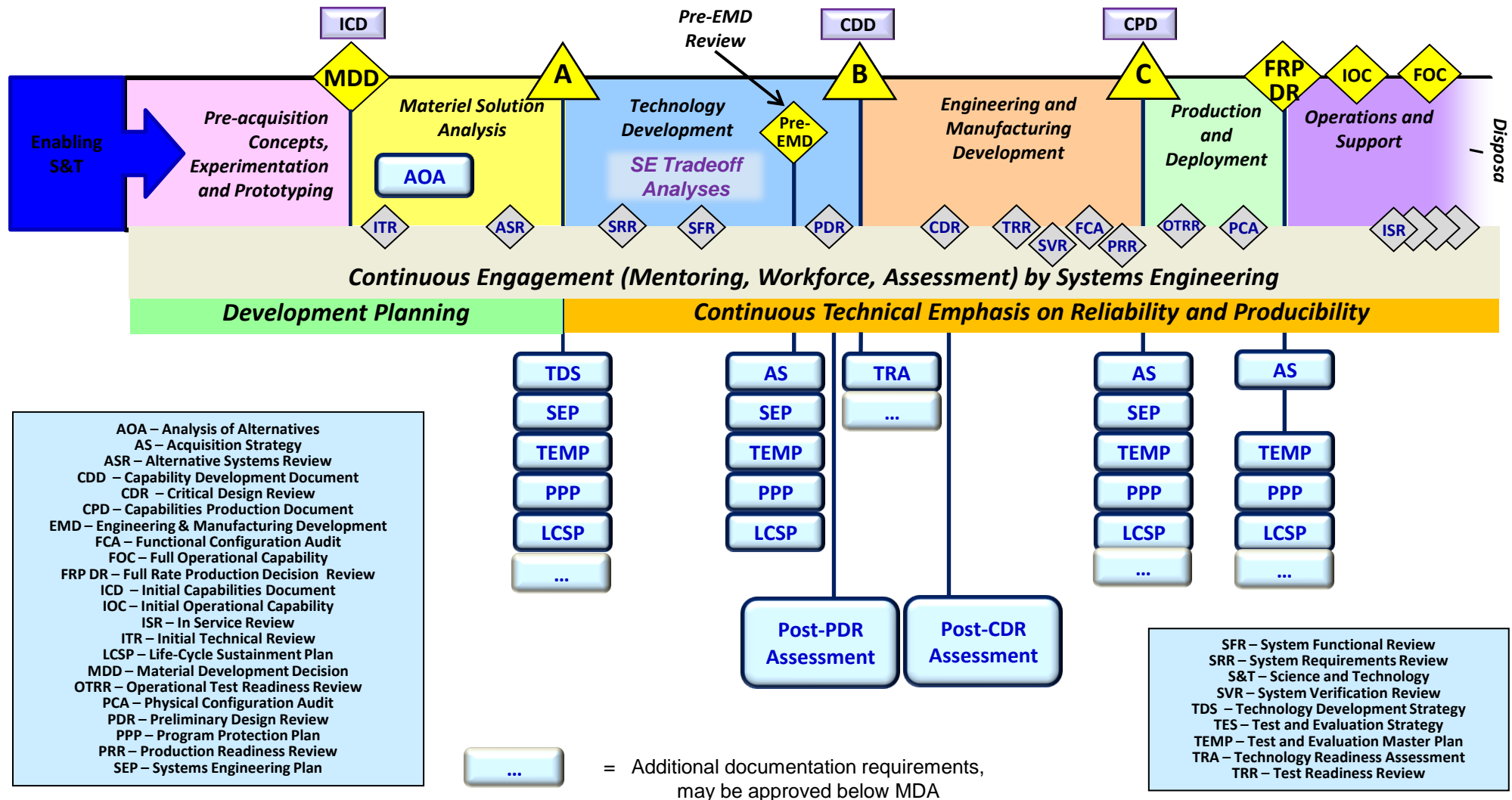
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Defense Acquisition Guidebook (DAG)

- ▶ Provide consistent information and structure to meet needs of Program Managers and Systems Engineers
 - Acquisition Community Connection: More specific guidance on how to accomplish activities
- ▶ Eliminate “Vee” Charts
 - Replace with updated acquisition life-cycle process
 - Focus on what information, which activities, and what documents are needed at key points
- ▶ New DAG Chapter 4, Systems Engineering (SE) Framework
 - Introduction (Overview)
 - Systems Engineering Activities in the Life-Cycle
 - Description of key activities by each phase
 - Technical Reviews
 - Emerging Acquisition Models
 - Systems Engineering Processes
 - Description of each process
 - Design Considerations – ESOH resides in this Section
 - Specialty Engineering

Updated Acquisition Life Cycle “Weapon System Development”



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Military Department Updates

► Air Force

- Air Force Instruction (AFI) 63-101 – Acquisition and Sustainment Life Cycle Management (3 Aug 2011)
- AFI 63-1201 - Life Cycle Systems Engineering (12 Sep 2011)
- Air Force Pamphlet (AFPAM) 63-101 – Guide to Acquisition and Sustainment Lifecycle Management (5 Oct 2009)
- Safety, Civil Engineering (Environmental Engineering), and Surgeon General AFIs



► Army

- Regulation 70–1 Army Acquisition Policy (22 Jul 2011)



► Navy/Marine Corps

- Secretary of the Navy Instruction (SECNAVINST) 5000.2E – Implementation and Operation of the Defense Acquisition System and the Joint Capabilities Integration and Development System (1 Sep 2011)



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Summary

- ▶ DoDI 5000.02 update is planned for late 2012.
 - It will include frameworks for multiple system types: Weapon Systems (the traditional), Information Technology, Business, and Rapid Acquisition..
 - ODUSD(I&E) and the DoD ESOH Integrated Product Team will remain abreast of changes and will provide ESOH input..
- ▶ User ESOH SMEs participation in JCIDS process is critical.
 - Essential for successful integration of ESOH requirements in the SE process
 - ESOH in JCIDS DAU Module useful tool
 - Facilitates User ESOH SME understanding of how to effectively participate and develop capability needs
- ▶ Alignment of the PESHE document with the SEP provides greater visibility of ESOH requirements in SE.
- ▶ MIL-STD-882E clarifies system safety process for environmental use and facilitates applying ESOH analysis to system contract.
- ▶ Updated DAG will be current and easier to use.



Questions

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